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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO.		
09/595,074 06/16/2000		Kevin Wilson	55092 CCD	9748		
75	90 09/13/2002					
Christopher C Dunham c/o Cooper & Dunham LLP 1185 Avenue of the Americas	EXAMINER					
			IMAM, ALI M			
New York, NY 10036			ART UNIT	PAPER NUMBER		
			3737			
			DATE MAILED: 09/13/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application	No.	Applicant(s)			
<b>.</b>		09/595,074		WILSON ET AL.	Ch		
	Office Action Summary	Examiner		Art Unit			
	•	Ali Imam					
	The MAILING DATE of this communication		over sheet with the c	3737 orrespondence addre			
Period fo							
THE - Exte after - If the - If NO - Failt - Any	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATION IN THE PROPERTY OF THIS COMMUNICATION IN THE PROPERTY OF THIS COMMUNICATION IN THE PROPERTY OF THE PROPERTY	ON. FR 1.136(a). In no event n. a reply within the statuto eriod will apply and will a statute, cause the applica	, however, may a reply be tim ry minimum of thirty (30) days expire SIX (6) MONTHS from ation to become ABANDONEI	nely filed s will be considered timely. the mailing date of this comm D (35 U.S.C. § 133).	nunication.		
1)🛛	Responsive to communication(s) filed on	6/17/02 (Amendi	ment) .				
2a)⊠	· · · · · · · · · · · · · · · · · · ·	This action is n					
3)	Since this application is in condition for al			osecution as to the r	merits is		
,—	closed in accordance with the practice un				nomo io		
· · _	ion of Claims	-4'					
4)	Claim(s) <u>1-28</u> is/are pending in the application of the above plaim(s)		idanatian				
£\□	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)∐ 6\⊠	Claim(s) is/are allowed. Claim(s) <u>1-28</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
<i>,</i> —	Claim(s) are subject to restriction a	nd/or election rec	uirement				
	ion Papers	na/or cicodon rec	junoment.				
9) 🗌	The specification is objected to by the Exar	miner.					
10)	The drawing(s) filed on is/are: a) a	accepted or b)☐ o	bjected to by the Exa	miner.			
	Applicant may not request that any objection	to the drawing(s) b	e held in abeyance. So	ee 37 CFR 1.85(a).			
11)	The proposed drawing correction filed on _	is: a)⊟ app	proved b) disappro	ved by the Examiner.			
	If approved, corrected drawings are required	in reply to this Offic	e action.				
12)	The oath or declaration is objected to by the	e Examiner.					
Priority (	under 35 U.S.C. §§ 119 and 120		,				
13)	Acknowledgment is made of a claim for for	reign priority und	er 35 U.S.C. § 119(a	)-(d) or (f).			
a)	☐ All b)☐ Some * c)☐ None of:						
	1. Certified copies of the priority docum	nents have been	received.				
	2. Certified copies of the priority docum	nents have been	received in Applicati	on No			
* (	3. Copies of the certified copies of the application from the Internationa See the attached detailed Office action for a	al Bureau (PCT R	ule 17.2(a)).		age		
	Acknowledgment is made of a claim for dom		·		oplication).		
a	a) ☐ The translation of the foreign language Acknowledgment is made of a claim for don	e provisional appl	ication has been rec	eived.			
Attachmen	•		<b>33</b> = 1				
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948 mation Disclosure Statement(s) (PTO-1449) Paper No	3) 5	Interview Summary  One of Informal F  Other:				

Application/Control Number: 09/595,074

Art Unit: 3737

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 2. Claims 1-28 are rejected under 35 U.S.C. 102(e) as being anticipated by Mendlein et al. (US 6,013,031). Mendlein teaches in col. 1, line 57- col. 3, line 50, a method and apparatus for determining bone characteristics by steps and structures for disposing a pair of ultrasonic transducers (col. 2, line 47) made of polyvinylidene fluoride (col. 8, lines 45-47), ultrasonically coupling both transducers to a bone-containing animal portion (see Fig. 7C), electrically emerging the transducers to transmit by one and receive by the other transducer ultrasonic signals, detecting the signals and evaluating the signals for determining bone characteristics. In col. 1, line 17, Mendlein teaches that the method is being used for non-invasive assessment of bone status in patients with osteoporosis. Piezoelectric transducer made of copolymer, e.g., copolymers of vinylidene fluoride and trifluoroethylene, is well known in art of ultrasonic measurement systems. See for example: col. 7, lines 60-65 of Proudian, deceased et al. (US 4,917,097); the abstract of Ohigashi et al. (US 4,424,465); col. 2, line 18 of Van der Spiegel et al. (US 5,254,504); col. 10, lines 28-31 of Hashimoto et al. (US 5,307,816); col. 5, line 4 of Dias et al. (US 5,511,296); col. 6, line 61 of Finsterwald et al. (US 6,038,752); col. 4, line 50 of Toda (US 6,307,302); or col. 13, line 33 of Shimoda et al. (US 6,420,190).

Application/Control Number: 09/595,074 Page 3

Art Unit: 3737

## Response to Arguments

- Applicant's arguments filed 6/17/02 have been fully considered but they are not persuasive. The examiner respectfully disagrees that applicant's copolymer transducer is a novel feature. Piezoelectric transducer made of copolymer, e.g., copolymers of vinylidene fluoride and trifluoroethylene, is well known in art of ultrasonic measurement systems. See for example: col. 7, lines 60-65 of Proudian, deceased et al. (US 4,917,097); the abstract of Ohigashi et al. (US 4,424,465); col. 2, line 18 of Van der Spiegel et al. (US 5,254,504); col. 10, lines 28-31 of Hashimoto et al. (US 5,307,816); col. 5, line 4 of Dias et al. (US 5,511,296); col. 6, line 61 of Finsterwald et al. (US 6,038,752); col. 4, line 50 of Toda (US 6,307,302); or col. 13, line 33 of Shimoda et al. (US 6,420,190). Applicant did not argue about other limitations of the claims except for "copolymer transducer". Therefore, it is considered that the Mendlein patent teaches all the limitations of the claimed invention.
- 4. In response to applicant's argument that the prior art does not mention to use the transducer to test bone, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See *In re Casey*, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 136 USPQ 458, 459 (CCPA 1963).

#### Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Application/Control Number: 09/595,074

Art Unit: 3737

date of this final action.

Page 4

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ali Imam whose telephone number is 703-305-0028. The examiner can normally be reached on Mon. - Th., 8:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marvin Lateef can be reached on 703-308-3256. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-0758 for regular communications and 703-308-0758 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1148.

September 6, 2002

Marvin M. Lateef Supervisory Patent Examiner